Abstract

Robust controllers designed via H? Loop Shaping are complicated and are of order higher than that of the plant. It is very difficult to implement these controllers in practical engineering applications. To overcome this problem, Genetic Algorithm is used to approximate a robust PID controller from H? Loop Shaping controller so that the difficulties in implementation of higher order controller can be avoided.

References

- Wen Tan, Horacio J. Marquez, and Tongwen Chen 2002 "Multivariable Robust Controller Design for a Boiler System"; IEEE Transactions on Control Systems...
Application of Genetic Algorithm for Tuning of

Reduced Ordered Robust PID Controller

Technology, vol. 10, no. 5.

Index Terms
- Computer Science
- Control Systems

Keywords
- Robust Controller
- H? Loop Shaping
- Weight Selection
- Genetic Algorithm
- PID Controller
- And Missile Control System